

In the Specification:

Please replace the paragraph beginning at page 7, line 18 with the following paragraph:

A1 Further a DAA according to the present invention has increased immunity to other problems that may be observed during high voltage transient tests. Even a metallic or horizontal surge, for example, may be accompanied by a longitudinal spike suedue to imperfections in the surge generator equipment. Again, such unexpected longitudinal spikes are suppressed by the disclosed DAA.

Please replace the paragraph beginning at page 11, line 8 with the following paragraph:

A2 A DAA in accordance with the invention can be utilized with any product that interfaces a telephone network 110 connection to any digital signal processor technology, or any processor of host system circuitry 116216 that performs analog modem modulations. Examples include, but are not limited to, data modems, computers, web browsers, set top boxes, home gateway devices, fax machines, cordless telephones and telephone answering machines. In addition, many different interfaces with the telephone network 110 and/or other transmission media are contemplated, such that the DAA may be configured to be compatible with whichever means is utilized.

Please replace the paragraph beginning at page 14, line 19 with the following paragraph:

Programmability of the network interface circuitry 214 may be achieved in a variety of ways. For example, if the host system circuitry 216 desires to program a particular feature of the line side circuitry 106 (e.g., vary line/ring impedance), a command or programming signal is communicated to the system side 204. The command or programming signal may then be reconfigured for transmission to the line side circuitry 106 in a digital manner via the digital isolation barrier 200. Alternatively, the command or programming signal may originate in the ~~system side circuitry 204~~^{A3} ~~line side circuitry 106~~, where it will be directed towards the system side circuitry 204 by the line side circuitry 106. Command or programming signals may be multiplexed and serialized for transmission across the digital isolation barrier 200, thereby reducing the complexity and expense of the digital isolation barrier. Data signals may also be combined with command or programming signals, further simplifying the digital isolation barrier 200.

Please replace the paragraph beginning at page 19, line 6 with the following paragraph:

A transistor 340 having a collector coupled to the base of the transistor 320, in conjunction with the ~~transistor~~^{A4} ~~resistor~~ 342, draw line current from the telephone connection of provision to the electronic inductor 276 to indicate off-hook

A4
conditions. The electronic inductor 276 operates in conjunction with the DAC 288, ADC 290 and software control functionality of the DAA. The electronic inductor 276 is also coupled to the "+" or plus terminal of the diode bridge 104 via resistors 344 and 348 are utilized to determine if the TIP and RING connection 300 and 302 voltages reflect an on-hook condition.

Please replace the paragraph beginning at page 19, line 18 with the following paragraph:

A5
The DAC 288 and ADC 290 are utilized in the disclosed embodiment to aid in measuring currents and voltages in the TIP and RING connections 300 and 302, and for providing related information to the protocol framing and control circuit 292 for provision to the system side circuitry 204. The DAC 288 and ADC 290 are programmable to allow modifications to the current and voltages on the TIP and RING connections 303300 and 302 (e.g., the line side circuitry 106 can be programmed to draw more current from the TIP and RING connections 300 and 302 to lower telephone line voltages as may be required in a specific country).